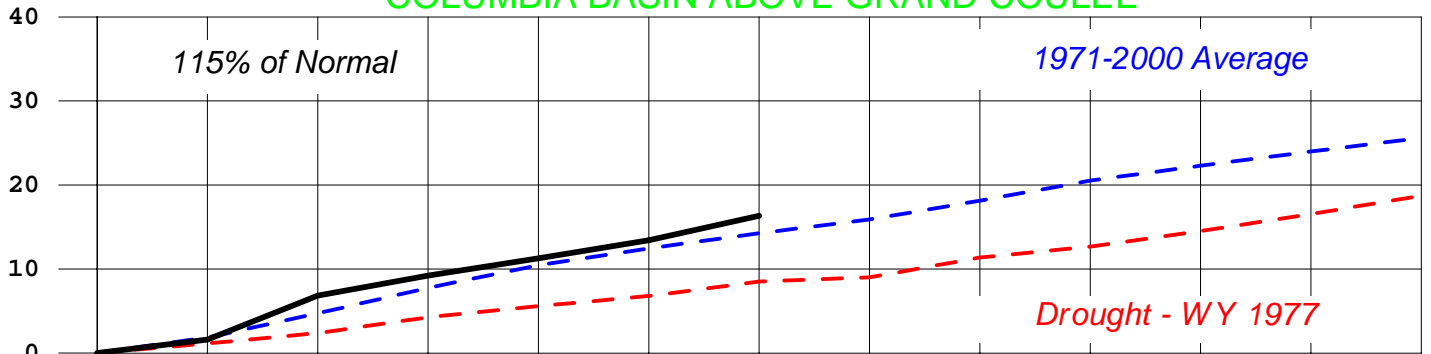
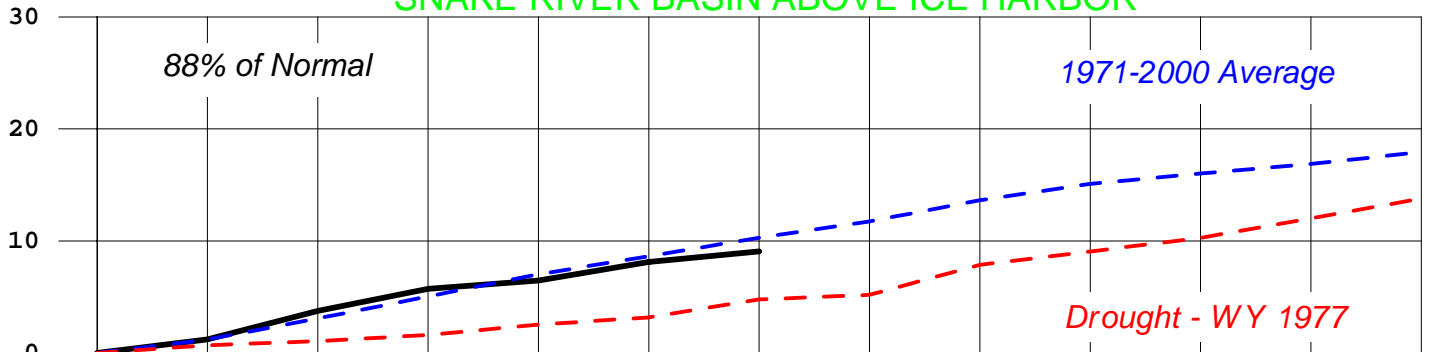


CUMULATIVE PRECIPITATION
WATER YEAR 2007

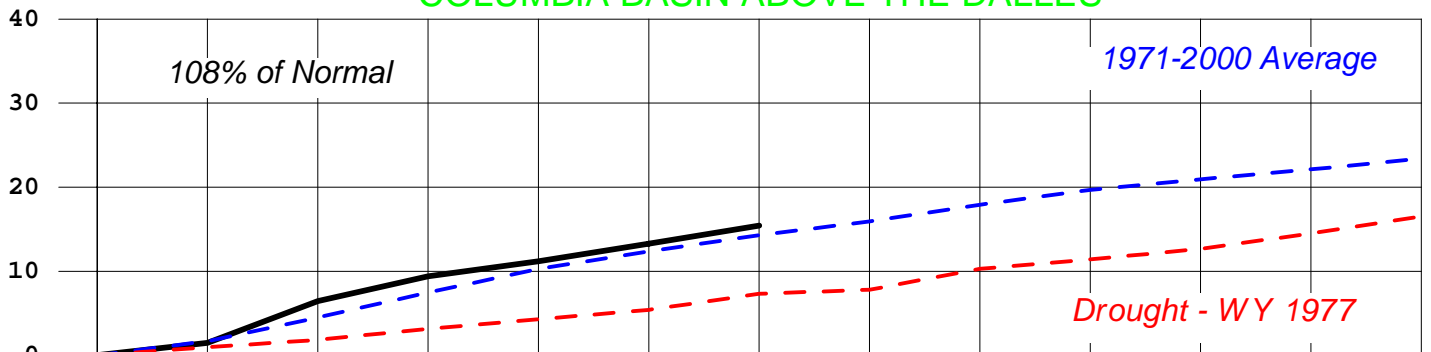
COLUMBIA BASIN ABOVE GRAND COULEE



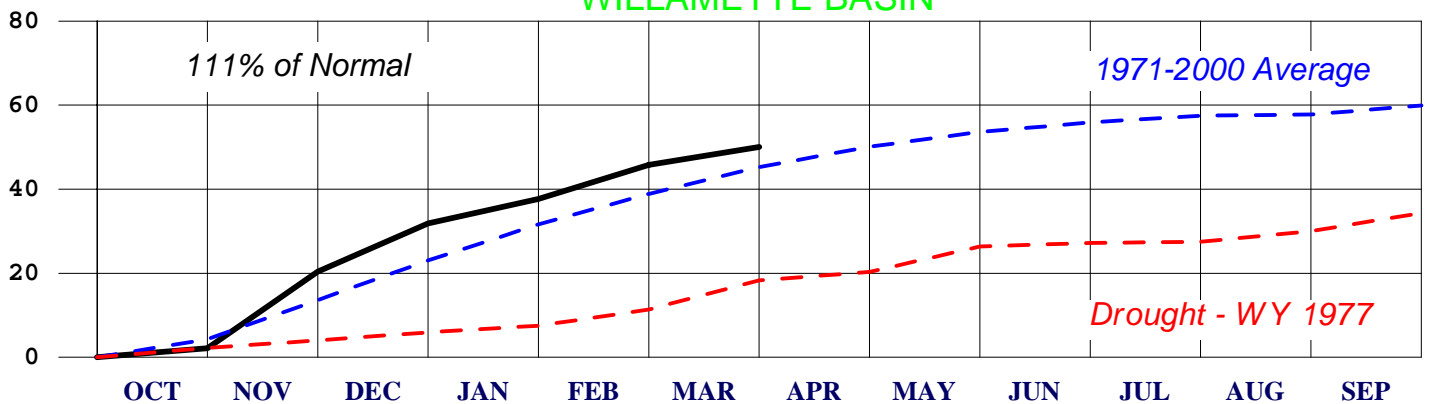
SNAKE RIVER BASIN ABOVE ICE HARBOR



COLUMBIA BASIN ABOVE THE DALLES



WILLAMETTE BASIN



ACCUMULATED PRECIPITATION IN INCHES

(Monthly Summary - mar 2007)

DIVISION	..MAR TO DAY 31..		OCT - MAR....			
	OBSD	DEP	PCT AV	OBSD	DEP	PCT AV	
COLUMBIA ABOVE COULEE	2.85	1.06	159.	16.35	2.10	115.	
SNAKE RV AB ICE HARBOR	0.94	-0.71	57.	9.07	-1.22	88.	
COLUMBIA AB THE DALLES	2.05	0.13	107.	15.42	1.13	108.	
COLUMBIA AB CASTLEGAR	4.69	2.27	194.	23.17	2.79	114.	
KOOTENAI	3.09	1.31	174.	17.86	3.27	122.	
CLARK FORK	0.99	-0.21	82.	9.71	0.72	108.	
FLATHEAD	1.52	-0.11	93.	12.99	0.81	107.	
PEND OREILLE/ SPOKANE	3.20	0.43	115.	20.62	0.43	102.	
NORTHEAST WASHINGTON	1.27	-0.35	79.	10.99	0.17	102.	
OKANOGAN	0.98	-0.13	88.	10.84	1.87	121.	
EAST SLOPES WASH CASC.	3.56	0.11	103.	38.13	6.52	121.	
CENTRAL WASHINGTON	0.54	-0.29	65.	5.93	0.02	100.	
UPPER SNAKE	0.72	-1.01	41.	10.24	-1.10	90.	
SNAKE RIVER PLAIN	0.56	-0.57	49.	5.07	-1.04	83.	
OWYHEE/ MALHEUR	0.44	-0.69	39.	4.64	-1.91	71.	
SALMON/ BOISE/ PAYETTE	0.83	-1.11	43.	11.27	-1.50	88.	
BURNT/ GRANDE RONDE	0.68	-0.71	49.	7.82	-1.79	81.	
CLEARWATER	2.43	-0.37	87.	19.98	1.37	107.	
SOUTHEAST WASHINGTON	1.79	-0.12	94.	12.39	-0.09	99.	
UPPER JOHN DAY	0.63	-0.77	45.	8.63	-0.06	99.	
UMATILLA/ LWR JOHN DAY	1.37	-0.25	84.	11.82	1.47	114.	
UPR DESCHUTES/ CROOKED	0.46	-0.91	34.	9.36	-0.59	94.	
HOOD/ LOWER DESCHUTES	1.66	-1.03	62.	25.55	4.03	119.	
NW SLOPE WASH CASCADES	13.60	4.95	157.	77.08	11.62	118.	
SW WA CASCADES/COWLITZ	7.41	0.33	105.	57.46	3.99	107.	
WILLAMETTE VALLEY	4.43	-1.96	69.	50.04	4.77	111.	
ROGUE/ UMPQUA	2.28	-1.86	55.	31.62	3.80	114.	
KLAMATH BASIN	0.65	-1.39	32.	12.40	-1.25	91.	
LAKE COUNTY-GOOSE LAKE	0.45	-0.84	35.	6.27	-1.37	82.	
HARNEY/ MALHEUR BASIN	0.47	-0.75	39.	5.20	-1.47	78.	

Columbia River Basin division values are computed by utilizing un-weighted precipitation amounts from key stations in each area.

Precipitation normals are based on 1971-2000 historical data.

Please contact NWRFC for further information: (503) 326-7291.

MARCH 2007 WAS GENERALLY A WARM AND DRY MONTH ACROSS MOST OF THE NWRFC AREA, HOWEVER THERE WERE SOME VERY NOTABLE EXCEPTIONS. MUCH OF BRITISH COLUMBIA AND WESTERN WASHINGTON WERE WETTER THAN NORMAL AS AN ACTIVE PACIFIC STORM TRACK BROUGHT SEVERAL MODERATE TO HEAVY PRECIPITATION EVENTS TO THAT AREA.

PRECIPITATION SUMMARY

AN ACTIVE PACIFIC STORM TRACK FOCUSED MAINLY ON BRITISH COLUMBIA, HOWEVER THERE WERE TIMES THE STORM TRACK SHIFTED SOUTH AND BROUGHT VERY HEAVY RAIN TO PORTIONS OF WESTERN WASHINGTON. AS A RESULT WESTERN WASHINGTON AND MOST OF BRITISH COLUMBIA RECEIVED WELL ABOVE NORMAL PRECIPITATION DURING THE MONTH OF MARCH. QUILLAYUTE RECORDED AN IMPRESSIVE 23.23 INCHES OF RAIN DURING THE MONTH, MORE THAN DOUBLE THE AVERAGE MARCH TOTAL. CONVERSELY, STRONG DOWNSLOPE FLOW RESULTED IN VERY DRY CONDITIONS JUST EAST OF THE WASHINGTON CASCADES. OMAK, ONLY 230 MILES EAST OF QUILLAYUTE, RECEIVED JUST 0.08 INCH OF LIQUID EQUIVALENT PRECIPITATION FOR THE ENTIRE MONTH.

TWO NOTABLE STORM SYSTEMS BROUGHT FLOODING PROBLEMS TO THE PACIFIC NORTHWEST. THE FIRST OCCURRED MARCH 10-12, BRINGING PROLONGED VERY HEAVY RAIN AND WARM TEMPERATURES TO SW BRITISH COLUMBIA AND WESTERN WASHINGTON. MANY LOCATIONS IN SW BRITISH COLUMBIA AND NW WASHINGTON RECEIVED 2-4 INCHES OF RAIN OR MORE IN A 24 HR PERIOD. MEANWHILE, A STRONG TROPICAL INFLUENCE DROVE SNOW LEVELS UP TO 8000 FT OR HIGHER, ENHANCING SNOWMELT OFF THE NORTHERN TIER MTNS. DESPITE MODEST 1-2 INCH PRECIPITATION TOTALS FROM THIS EVENT OVER THE IDAHO PANHANDLE, SNOWMELT PUSHED MANY STREAMS ACROSS EASTERN WASHINGTON AND NORTHERN IDAHO UP TO OR ABOVE BANKFULL.

THE SECOND MAJOR WARM PRECIPITATION EVENT OCCURRED MARCH 23-25. THIS SYSTEM BROUGHT 2 DAYS OF HEAVY RAIN TO THE OLYMPIC PENINSULA AND THE CENTRAL AND NORTHERN WASHINGTON CASCADES. VERLOT RECORDED NEARLY 7 INCHES OF RAIN FROM THIS EVENT, AND A STRONG TROPICAL INFLUENCE ONCE AGAIN PUSHED SNOW LEVELS UP TO NEAR 10000 FT. THE COMBINATION OF VERY HEAVY RAIN AND FAST SNOWMELT GENERATED VERY SHARP RISES ALONG MANY WASHINGTON CASCADE DRAINAGES.

WHILE THE NORTHERN TIER AND WESTERN WASHINGTON EXPERIENCED A VERY WET MONTH, THE REMAINDER OF THE PACIFIC NORTHWEST STAYED WARM AND DRY. WITH THE STORM TRACK FOCUSED TO THE NORTH AND WEST, PRECIPITATION DEFICITS WORSENERD ACROSS MUCH OF THE SNAKE RIVER REGION. AFTER A VERY WET START TO THE WATER YEAR ACROSS WESTERN OREGON, ANOTHER RELATIVELY DRY MONTH BROUGHT SEASONAL PRECIPITATION TOTALS DOWN TO NEAR NORMAL.

MARCH PRECIPITATION WAS: 159 PERCENT OF NORMAL (1971-2000) AT COLUMBIA ABOVE COULEE, 57 PERCENT OF NORMAL AT THE SNAKE RIVER ABOVE ICE HARBOR, AND 107 PERCENT OF NORMAL AT COLUMBIA ABOVE THE DALLES.

SEASONAL (OCTOBER THROUGH MARCH) PRECIPITATION WAS: 115 PERCENT OF NORMAL (1971-2000) AT COLUMBIA ABOVE COULEE, 88 PERCENT OF NORMAL AT THE SNAKE RIVER ABOVE ICE HARBOR, AND 108 PERCENT OF NORMAL AT COLUMBIA ABOVE THE DALLES.

LISTED BELOW IS AN UNOFFICIAL SUMMARY OF NEW PRECIPITATION RECORDS REPORTED BY NWS FORECAST OFFICES DURING THE MONTH OF MARCH 2007. FOR OFFICIAL INFORMATION, PLEASE CONTACT YOUR LOCAL FORECAST OFFICE OR THE NATIONAL CLIMATIC DATA CENTER.

DAILY MAXIMUM PRECIPITATION RECORDS

ON MARCH 7, 2007

LOCATION	NEW RECORD	PREVIOUS RECORD
PORTHILL, ID	1.20 INCHES	0.51 INCHES IN 1916
WALLA WALLA, WA	0.60 INCHES	0.33 INCHES IN 1957

ON MARCH 10, 2007

LOCATION	NEW RECORD	PREVIOUS RECORD
QUILLAYUTE, WA	1.97 INCHES	1.25 INCHES IN 1983

ON MARCH 11, 2007

LOCATION	NEW RECORD	PREVIOUS RECORD
QUILLAYUTE, WA	3.05 INCHES	1.47 INCHES IN 2002
ASTORIA, OR	1.85 INCHES	1.05 INCHES IN 1971
BONNERS FERRY, ID	0.55 INCHES	0.52 INCHES IN 2002
NORTHPORT, WA	0.48 INCHES	0.35 INCHES IN 1921

ON MARCH 23, 2007

LOCATION	NEW RECORD	PREVIOUS RECORD
QUILLAYUTE, WA	3.52 INCHES	2.30 INCHES IN 1976

ON MARCH 24, 2007

LOCATION	NEW RECORD	PREVIOUS RECORD
QUILLAYUTE, WA	2.78 INCHES	2.00 INCHES IN 1978
STAMPEDE PASS, WA	2.32 INCHES	1.68 INCHES IN 1976
TILLAMOOK, OR	2.12 INCHES	1.84 INCHES IN 1976
HOQUIAM, WA	1.91 INCHES	1.26 INCHES IN 1988
ASTORIA, OR	1.79 INCHES	1.73 INCHES IN 1988
OLYMPIA, WA	1.31 INCHES	1.12 INCHES IN 1962
PORTLAND, OR	0.88 INCHES	0.83 INCHES IN 1948
BOUNDARY DAM, WA	0.65 INCHES	0.54 INCHES IN 1976
BELLINGHAM, WA	0.50 INCHES	0.45 INCHES IN 1999

ON MARCH 25, 2007

LOCATION	NEW RECORD	PREVIOUS RECORD
MULLAN PASS, ID	1.16 INCHES	0.80 INCHES IN 2006

ON MARCH 26, 2007

LOCATION	NEW RECORD	PREVIOUS RECORD
QUINCY, WA	0.28 INCHES	0.27 INCHES IN 1963
GRAND COULEE DAM, WA	0.23 INCHES	0.16 INCHES IN 1983

ON MARCH 27, 2007

LOCATION	NEW RECORD	PREVIOUS RECORD
CHALLIS, ID	0.50 INCHES	0.16 INCHES IN 1940
MOSES LAKE, WA	0.43 INCHES	0.28 INCHES IN 1985
POCATELLO, ID	0.41 INCHES	0.35 INCHES IN 1981

TEMPERATURE SUMMARY

OCCASIONAL STRONG RIDGING AND A WARM TROPICAL INFLUENCE AHEAD OF PACIFIC FRONTAL SYSTEMS CAUSED NEARLY ALL REPORTING STATIONS ACROSS THE PACIFIC NORTHWEST TO HAVE ABOVE NORMAL TEMPERATURES FOR THE MONTH OF MARCH. MOST LOCATIONS WERE 2 TO 4 DEGREES ABOVE NORMAL, BUT INTERIOR SITES ACROSS IDAHO AND WYOMING WERE GENERALLY 3 TO 6 DEGREES ABOVE NORMAL. PERSISTENT WARM WESTERLY FLOW RESULTED IN ANOTHER VERY WARM MONTH FOR MONTANA, HELENA AND GREAT FALLS WERE +8.0 AND +8.5 DEGREES ABOVE NORMAL FOR THE MONTH RESPECTIVELY.

AS AN EXAMPLE OF HOW ANOMALOUSLY WARM MARCH 2007 WAS, DAILY RECORD HIGH TEMPERATURES WERE EITHER BROKEN OR TIED SOMEWHERE ACROSS THE PACIFIC NORTHWEST ON 13 OF THE 31 DAYS IN THE MONTH OF MARCH.

THE 31 STATION TEMPERATURE INDEX FOR THE PACIFIC NORTHWEST DEPARTED +3.6 DEGREES FROM NORMAL RELATIVE TO THE 1971-2000 NORMALS. MEAN TEMPERATURE DEPARTURES RANGED FROM +0.5 TO +8.5 DEGREES.

THE FOLLOWING IS A LIST SUMMARIZING SOME OF THE TEMPERATURE RECORDS BROKEN DURING THE MONTH OF MARCH 2007:

NOTE: THE FOLLOWING IS AN UNOFFICIAL SUMMARY BASED ON RECORD EVENT REPORTS ISSUED BY LOCAL NATIONAL WEATHER SERVICE FORECAST OFFICES. FOR OFFICIAL INFORMATION, PLEASE CONTACT YOUR LOCAL FORECAST OFFICE OR THE NATIONAL CLIMATIC DATA CENTER.

RECORD HIGH TEMPERATURES (DEGREES F) TIED OR BROKEN IN MARCH WERE:

ON MARCH 4, 2007:

LOCATION	NEW RECORD	PREVIOUS RECORD
QUILLAYUTE, WA	61	60 SET IN 1986

ON MARCH 6, 2007:

LOCATION	NEW RECORD	PREVIOUS RECORD
SEATTLE NWS WFO, WA	71	62 SET IN 1993
OLYMPIA, WA	70	67 SET IN 2005
SEATAC AIRPORT, WA	68	64 SET IN 1984
BELLINGHAM, WA	68	64 SET IN 1979
LEWISTON, ID	67	66 SET IN 1928
PULLMAN, WA	63	62 SET IN 1987

ON MARCH 7, 2007:

LOCATION	NEW RECORD	PREVIOUS RECORD
BOISE, ID	66 (T)	66 SET IN 1954
POCATELLO, ID	60 (T)	60 SET IN 1970

ON MARCH 11, 2007:

LOCATION	NEW RECORD	PREVIOUS RECORD
MADRAS, OR	77	68 SET IN 2005
PELTON DAM, OR	77 (T)	77 SET IN 2005
KENNEWICK, WA	76	70 SET IN 2005

MONUMENT, OR	76	70 SET IN 1996
HEPPNER, OR	74	71 SET IN 2005
BEND, OR	74 (T)	74 SET IN 1934
MOUNT SHASTA CITY, CA	74 (T)	74 SET IN 2005
EUGENE, OR	73	72 SET IN 2005
JOHN DAY, OR	73	69 SET IN 2005
LEWISTON, ID	73	71 SET IN 1930
WHITMAN MISSION, WA	73	71 SET IN 2005
YAKIMA, WA	73	72 SET IN 2005
PENDLETON AIRPORT, OR	72	69 SET IN 2005
WENATCHEE, WA	72	68 SET IN 2005
EPHRATA, WA	72	69 SET IN 2005
CHIEF JOSEPH DAM, WA	72	70 SET IN 2005
WALLA WALLA, WA	72 (T)	72 SET IN 2005
SALEM, OR	72 (T)	72 SET IN 1938
OMAK, WA	71	67 SET IN 2005
CONDON, OR	71	68 SET IN 1930
BURNS, OR	70	69 SET IN 2005
UNION, OR	70	69 SET IN 2005
GOLDENDALE, WA	67 (T)	67 SET IN 1934
JOSEPH, OR	65 (T)	65 SET IN 1934

ON MARCH 12, 2007:

LOCATION	NEW RECORD	PREVIOUS RECORD
WINNEMUCCA, NV	76	75 SET IN 1934
HELENA, MT	74	65 SET IN 2004
BURLEY, ID	73	68 SET IN 1992
WENATCHEE, WA	73 (T)	73 SET IN 2005
BOISE, ID	72	70 SET IN 1934
ELKO, NV	72	71 SET IN 1934
POCATELLO, ID	69	64 SET IN 1992
CHALLIS, ID	69	66 SET IN 1934
CHELAN, WA	67	63 SET IN 1984
NORTHPORT, WA	66 (T)	66 SET IN 1992
IDAHO FALLS, ID	64	61 SET IN 1992
MEACHAM, OR	56 (T)	56 SET IN 2003

ON MARCH 13, 2007:

LOCATION	NEW RECORD	PREVIOUS RECORD
SANDPOINT, ID	61 (T)	61 SET IN 1981

ON MARCH 15, 2007:

LOCATION	NEW RECORD	PREVIOUS RECORD
REDMOND, OR	69	67 SET IN 1973
MOUNT SHASTA CITY, CA	69 (T)	69 SET IN 1972
KLAMATH FALLS, OR	66 (T)	66 SET IN 2004

ON MARCH 16, 2007:

LOCATION	NEW RECORD	PREVIOUS RECORD
WINNEMUCCA, NV	76	74 SET IN 1916
BURLEY, ID	72	70 SET IN 1974
ELKO, NV	72	70 SET IN 1947
TROUTDALE, OR	70 (T)	70 SET IN 1972
POCATELLO, ID	69	66 SET IN 1947
BURNS, OR	69	68 SET IN 1959
SEATTLE NWS WFO, WA	66	63 SET IN 1988
SEATAC AIRPORT, WA	66 (T)	66 SET IN 1972
IDAHO FALLS, ID	65	60 SET IN 1972

ON MARCH 17, 2007:

LOCATION	NEW RECORD	PREVIOUS RECORD
WINNEMUCCA, NV	79	76 SET IN 1972
PENDLETON, OR	76 (T)	76 SET IN 1972
BOISE, ID	75	73 SET IN 1941
ELKO, NV	75	70 SET IN 1972
BURLEY, ID	74	70 SET IN 1972
MOUNT SHASTA CITY, CA	74 (T)	74 SET IN 2004
WALLA WALLA, WA	73 (T)	73 SET IN 1972
POCATELLO, ID	72	66 SET IN 1972
HELENA, MT	71	67 SET IN 1972
MISSOULA, MT	71 (T)	71 SET IN 1972
CHALLIS, ID	70	67 SET IN 1972
IDAHO FALLS, ID	69	64 SET IN 1972
GREAT FALLS, MT	69 (T)	69 SET IN 1972
PULLMAN, WA	66	65 SET IN 1972
WINCHESTER, ID	66 (T)	66 SET IN 1972
BUTTE, MT	64	63 SET IN 1972
STANLEY, ID	58	56 SET IN 1978

ON MARCH 18, 2007:

LOCATION	NEW RECORD	PREVIOUS RECORD
MONUMENT, OR	78	72 SET IN 1978
CHIEF JOSEPH DAM, WA	69	68 SET IN 1981
EPHRATA, WA	67	66 SET IN 1978
CHELAN, WA	65 (T)	65 SET IN 1972

ON MARCH 19, 2007:

LOCATION	NEW RECORD	PREVIOUS RECORD
UNION, OR	72	70 SET IN 1978
LA GRANDE, OR	69 (T)	69 SET IN 1960
IDAHO FALLS, ID	66	65 SET IN 1999

ON MARCH 24, 2007:

LOCATION	NEW RECORD	PREVIOUS RECORD
HELENA, MT	74	69 SET IN 1999
MISSOULA, MT	71	69 SET IN 1939
BUTTE, MT	65	64 SET IN 1956

ON MARCH 26, 2007:

LOCATION	NEW RECORD	PREVIOUS RECORD
POCATELLO, ID	69 (T)	69 SET IN 1960
IDAHO FALLS, ID	68	66 SET IN 1960

RECORD LOW TEMPERATURES (DEGREES F) TIED OR BROKEN IN MARCH WERE:

ON MARCH 21, 2007:

LOCATION	NEW RECORD	PREVIOUS RECORD
BOUNDARY DAM, WA	11	15 SET IN 2002
REDMOND, OR	13	14 SET IN 1949
COLVILLE, WA	14	20 SET IN 1955
OMAK, WA	19	20 SET IN 1969
SATUS PASS, WA	19 (T)	19 SET IN 1956
SEATTLE NWS WFO, WA	32	34 SET IN 1994

ON MARCH 27, 2007:

LOCATION	NEW RECORD	PREVIOUS RECORD
REDMOND, OR	16 (T)	16 SET IN 1949

US Dept of Commerce
National Oceanic and Atmospheric Administration
National Weather Service
Northwest River Forecast Center (NWRFC)
5241 NE 122nd Avenue
Portland, Oregon 97230-1089
Telephone: 503-326-7401

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